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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,968	08/26/2003	Helmut Borberg	07030.0004U2 7077	
23859	7590 04/06/2006		EXAMINER	
NEEDLE & ROSENBERG, P.C.		BIANCO, PATRICIA		
SUITE 1000 999 PEACHTREE STREET			ART UNIT PAPER NUMBER	
ATLANTA, GA 30309-3915			3761	

DATE MAILED: 04/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/649,968	BORBERG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Patricia M. Bianco	3761				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on RCE	■ Responsive to communication(s) filed on RCE filed 1/17/06.					
2a) ☐ This action is FINAL . 2b) ☑ This	☐ This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1 and 2 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati nty documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
	•					
Attachment(s)	<u>_</u>					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					
S. Patent and Trademark Office	45	Dard of Dames No. (Mail Date 040400				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/17/06 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 2 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 1 has been amended to recite that the method step of treating the blood is "by differentially removing" high molecular weight protein from the subject. The specification as originally filed does not support differentially removing proteins from the blood. Further, the specification as originally filed does not provide a written description that reasonably conveys what applicant encompasses the step of differentially removing.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 1 is rejected under 35 U.S.C. 103(a) as obvious over "Plasmapheresis in the treatment of critical degree of ischaemia in diabetic and angiopathies of lower extremities" (Georgadze et al.) Georgadze et al. teaches that plasmapheresis may be used for the treatment of ischemia in the lower extremities of diabetics. It is disclosed that the plasmapheresis corrects the biochemical and coagulation parameters of the blood and thereby preserves the extremity from amputation in most patients.

Plasmapheresis will remove protein, as disclosed in the article (see chart & body of article). The treatment of blood via plasmapheresis as treatment for a person diagnosed with diabetic ischemia of the foot since the foot is met since a foot is

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obviously part of the lower extremity. Such treatment would be beneficial to preserve the foot from amputation. With respect to the specific removal of high molecular weight protein, it would be within ordinary skill in the art to choose a plasmapheresis method to remove proteins of any desired size, such as high molecular weight proteins, using the method of Georgadze et al..

Claims 1 & 2 are rejected under 35 U.S.C. 103(a) as obvious over "Plasmapheresis in the treatment of critical degree of ischaemia in diabetic and angiopathies of lower extremities" (Georgadze et al.) in view of Malchesky et al. (4,350,156). Georgadze et al. substantially teaches the invention as claimed, see rejection supra, except for specifically teaching that the high molecular weight protein is lipoprotein cholesterol.

Malchesky et al. teaches of plasmafiltration of blood for the removal of high molecular weight (for example 100,000 Daltons) such as cholesterol-lipid complexes (i.e. lipoprotein cholesterol). It would have been obvious to one at the time of the invention, to modify the method of Georgadze et al. to specifically remove high molecular protein, such as lipoprotein cholesterol, as taught by Malchesky et al. if desired since both teach of removing protein from the blood to achieve a therapeutic result.

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Response to Arguments

Applicant's arguments filed in the After Final Amendment submitted 12/12/05 have been fully considered but they are not persuasive. Applicant argues that Georgadze et al. does not teach or suggest the removal of large molecular weight proteins or any motivation for selective removal; applicant also argues that the use of an infusion of a medicament is not used in the treatment according to the present invention; and applicant further argues that the invention is very selective compared to the gravitational plasmapheresis treatment according to Georgazde reference.

Applicant also argues that there is no motivation to combine Georgadze and Malchesky.

With respect to the argument that Georgadze does not teach of the specific removal of high molecular weight protein, plasmapheresis is a method that is generally recognized to be used to remove proteins of any desired size, such as high molecular weight proteins.

With respect to applicant's argument that the inclusion of a medicament being delivered in the reference, but not required by the claimed invention, this is not persuasive since the claims are open-ended, i.e. "comprising" claims, and therefore do not preclude a method that may incorporate additional steps.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in

the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, both teach of plasmapheresis methods and are, therefore, from the same field of endeavor.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia M. Bianco whose telephone number is (571) 272-4940. The examiner can normally be reached on Monday to Friday 9:00-6:30, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on (571) 272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 1st, 2006

PATRICIA BIANCO PRIMARY EXAMINER Patricia M Bianco Primary Examiner Art Unit 3761